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October 31, 1991

Dr. Bryan D. Walker, Deputy Assistant Manager
Environmental Restoration and Waste Management
DOE Field Office, Oak Ridge
Post Office Box 2003
Oak Ridge, Tennessee 37831-7136

Dear Dr. Walker:

Minimization of Chemicals On-Site

In response to your letter, Minimization of Chemicals On-Site, dated October 10, 1991, we have enclosed a list which identifies large inventories of hazardous materials found at the Oak Ridge K-25 Site. This list indicates the location and quantity of the materials identified. The comments column of the list indicates the use and need to retain the inventory.

As indicated, large quantities of epoxy resins, freon compounds, lithium compounds, and nickel compounds are in storage. Custodians of these materials have been contacted and dispositions will be made pending further review.

If you have any questions, please contact B. A. Haigler at 574-8620.

Sincerely,

L. E. Hall

L. E. Hall, Manager
Oak Ridge K-25 Site

LEH:BAH:sep

Enclosure

cc: K. L. Brady
J. J. Hummer
J. R. Merriman

cc/enc: B. A. Haigler
D. Milan
E. A. Moore - RC
R. L. Stroud (DOE)
File - LEH

IH91-0614

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APPROVAL FOR RELEASE

Document # Unnumbered ; Date 10/31/91
Title/Subject Ltr, LE Hall to BD Walker, "Minimiza-
tion of Chemicals On-Site"

Approval for unrestricted release of this document is authorized by the Oak Ridge K-25 Site Classification and Information Control Office, Martin Marietta Energy Systems, Inc., PO Box 2003, Oak Ridge, TN 37831-7307.

Quinn Davis 1/5/93

Date

K-25 Classification & Information Control Officer

#246

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Title: Minimization of Chemicals On-Site Hazardous Materials Survey
Authors: L. E. Hall

Abstract: List identifies large inventories of hazardous materials at K-25.
The list was created in response to a question posed by DOE, Oak
Ridge about the minimization of chemicals on-site.

Reviewer: J. Lamb

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HAZARDOUS MATERIALS SURVEY

<u>MATERIAL</u>	<u>LOCATION</u>	<u>QUANTITY</u>	<u>COMMENTS</u>
Acetic Acid	K-1232	3000 gal	Process discontinued. Inventory maintained pending disposition on restart of process.
Aluminum Sulfate	K-1515	6000 gal	State requirement for treatment of sanitary sewer, potable water and/or recirculating water systems.
	K-1515	11500 lbs	K-25 Site stores inventory.
Ammonia	K-1001	4-150 lb cyl	No reduction in level due to process demands (printing and reproduction).
Calcium Hydroxide	K-1515	350 lbs	Inventory maintained for state requirement indicated below.
	K-892	3 ton hopper	State requirement for treatment of sanitary sewer, potable water and/or recirculating water systems.
	K-1232	5000 gal	Process discontinued. Inventory maintained pending disposition on restart of process.
	K-1407H	35000 lbs	Non-hazardous waste treatment at the Central Neutralization Facility.
	Vault 5A	31500 lbs	K-25 Site stores inventory.
Carbon Tetrachloride	K-1435	19-55 gal drums	Inventory depleted during TSCA trial burns.

HAZARDOUS MATERIALS SURVEY (cont.)

<u>MATERIAL</u>	<u>LOCATION</u>	<u>QUANTITY</u>	<u>COMMENTS</u>
Chlorine	K-1203-4	2-1 ton cyl	Chemical feed for state requirement for the treatment of sanitary sewer, potable water and/or recirculating water systems.
	K-1515	2-1 ton cyl	Same as above.
	K-802	2-1 ton cyl	Same as above.
	K-1055H	4-1 ton cyl	K-25 Site stores inventory.
Epoxy Resins	K-25 Complex	3,230,000 lbs	No inventory change. Material poses a low potential for health threat due to the fact that it is in storage and is located in a sparsely populated area of the site. Attempts have been made to sell the material.
Fluorine	K-1004L	850 lb pig	Building supply system for Process and Long Range Technical Support (PLRTS) projects.
Freon Compounds	K-31 & K-33	2,600,000 lbs	No inventory change. Material poses a low potential for health threat due to fact that it is in storage and is located in a sparsely populated area of the site. Attempts have been made to send these materials to the Paducah site.

HAZARDOUS MATERIALS SURVEY (cont.)

<u>MATERIAL</u>	<u>LOCATION</u>	<u>QUANTITY</u>	<u>COMMENTS</u>
Diesel Fuel No. 2	K-1435	2000 gal	TCSA operations - decontamination and tank cleaning, auxiliary fuel.
	K-803	500 gal	Fire protection training.
Hydrochloric Acid	K-1407H	1000 gal	Hazardous waste treatment at the Central Neutralization Facility.
	K-1401	4000 gal	On excess list for resale.
	K-1420	400 gal	Inventory deleted. Process discontinued.
Lithium Compounds	K-25 Vaults	22,000,000 lbs	No inventory change. Material poses low potential for health threat due to the fact that it is in storage and is located in a sparsely populated area of the site.
<i>Marlin Dill</i> <i>49768</i>	301-5	304-1	305-2
	302-1	304-2	305-3
	302-2	304-3	305-4
	303-8	304-4	305-5
	303-9	304-5	305-5
	303-10	305-1	
Methanol	K-1414	6000 gal	Garage.
	K-1435	55 gal	Inventory depleted during TSCA trial burns.
Nickel Compounds	Vault 7A	20,000 lbs	No inventory change. Material poses low potential for health threat due to the fact that it is in storage and is located in a sparsely populated area of the site.
Nitric Acid	K-1420	250 gal	Inventory deleted. Process discontinued.

HAZARDOUS MATERIALS SURVEY (cont.)

<u>MATERIAL</u>	<u>LOCATION</u>	<u>QUANTITY</u>	<u>COMMENTS</u>
Nitrogen (Liquid)	K-1101	200,000 lbs	Supply site demand for nitrogen gas.
PCBs	K-33 & K-902-8	180,000 lbs	No inventory change. Material poses low potential for health threat due to the fact that it is in storage and is located in a sparsely populated area of the site.
Perchloroethylene	K-1420	3500 gal	Inventory deleted. Process discontinued.
Sodium Hydroxide	K-1435	64,000 lb	TSCA operations. 20% solution used for neutralization process.
Sulfuric Acid	K-1407H	2,500 gal	Non-hazardous waste treatment at the Central Neutralization Facility.
	K-1417	1,000 gal	Waste treatment.
	K-894	800 lb	Material used as part of state requirement for sanitary sewer, potable water and/or recirculating water systems.
1, 1, 1-Trichloroethane	K-1401	10,000 lb	Cleaning operation and storage. Need being reviewed for inclusion on excess material list for resale.